Name:

1. Use the following position vs. time graph to answer the following.
a) What is the speed of the object between 0 and 30 minutes?
b) What is the speed of the object 30 and 45 minutes?
c) What is the average speed of the object from 0 to 45 minutes?

2. Use the following position vs. time graph to answer the following.
a) When is the object moving the fastest?
b) When is the object moving in the positive direction?
c) When is the object moving in the negative direction?
d) When is the object not moving?
e) What is the average velocity of the object between 0 and 20 seconds?

3. Use the following position vs. time graph to answer the following.
a) What is the average speed of the object between 0 and 0.80 s ?
b) What is the instantaneous speed of the ball at 0.60 s ?

4. Use the following position vs. time graph to answer the following.
a) What is the average speed of the object between 0 and 50 s ?
b) What is the instantaneous speed of the object at 25 s ?
c) When is the object speeding up?
d) When is the object slowing down?

5. Use the following velocity vs. time graph to answer the following.
a) What is the displacement of the object over the 25 seconds?
b) What is the acceleration of the object in this time?

6. Use the following velocity vs. time graph to answer the following.
a) What is the displacement of the object over the 50 seconds?
b) Describe the motion of the object between 0 and 20 s.
c) When is the object moving in the positive direction? negative direction?
d) What is the acceleration of the object between 20 and 30 s ?

e) What is the acceleration of the object between 30 and 50 s ?
f) What is the average acceleration of the object over the 50 seconds?
g) What is the average speed of the object over the 50 seconds?
7. Use the following velocity vs. time graph to answer the following.
a) When is the velocity of the object the greatest?
b) When is the acceleration of the object the greatest (most positive)?
c) When is the acceleration of the object zero?
d) When is the object slowing down?
e) What is the displacement of the object over the 50 s ?

8. Use the following velocity vs. time graph to answer the following.
a) When is the object moving in the positive direction?
b) When is the object moving in the negative direction?
c) What is the displacement of the ball from 0 to 45 s ?
d) What is the displacement of the ball from 45 to 85 s ?
e) What is the total displacement of the ball between 0 and 85 s ?
f) What is the total distance travelled between 0 and 85 s ?
g) What is the average velocity over the 85 seconds?

